Solving Inequalities:
When you divide or multiply by a negative number, flip the inequality!

Average Rate of Change = Slope

$$\frac{y_2 - y_1}{x_2 - x_1}$$

Understand f(x).
It is NOT f times (x)!

y = mx + b
m represents the slope
b represents the y-intercept

Domain: x-values only!
___ < x < ___
Range: y-values only!
___ < y < ___

Graphing Inequalities:
If > or ≥ then shade UP on the y-axis.
If < or ≤ then shade DOWN on the y-axis.

MR. PAPETTI'S 1ST HALF GUIDE FOR SUCCESS

MOST IMPORTANT:
Be fluent with your graphing calculator!

Systems of Equations

By Graphing

→ Useful when "y" is isolated for both equations.
→Solution is where lines intersect.

By Substitution

→ Useful when "y" is isolated for one equation.
→Substitute for isolated variable and solve for all unknowns.

By Elimination

→Eliminate one variable by multiplying either equation by a constant that will yield opposite coefficients for the same variable.